

Title (en)

Crosslinkable Compositions, thermoplastic elastomers obtained therefrom and their use

Title (de)

Vernetzbare Zusammensetzungen, daraus erhältliche thermoplastische Elastomere und deren Verwendung

Title (fr)

Compositions réticulables, élastomères thermoplastiques à partir de celles-ci et leur utilisation

Publication

**EP 1762593 B1 20090429 (DE)**

Application

**EP 06018188 A 20060831**

Priority

DE 102005042265 A 20050906

Abstract (en)

[origin: EP1762593A1] Carboxylate salts of tri- or tetra-valent metals are used as crosslinkers in crosslinkable compositions based on thermoplastic polymers and carboxylated elastomers. Crosslinkable compositions (CC) containing (1) thermoplastic polymer(s), (2) elastomer(s) with carboxyl groups and (3) a crosslinker system comprising one or more salts of formula (R y->) x/y M x+> (I) in which R y->a 1-26C hydrocarbon residue with y carboxyl groups; y : 1, 2, 3 or 4; x : 3 or 4; M : a tri- or tetra-valent metal . Independent claims are included for (1) a method for the production of CC by mixing all three components at a temperature above the highest melting point (m.pt.) or glass transition point (Tg) of the polymer (1) (2) a method for the production of thermoplastic elastomers by subjecting CC to a continuous mixing process under the above temperature conditions (3) thermoplastic elastomers based on (1) and (2), in which component (2) is crosslinked by a system (3) as above (4) moulded parts made from such thermoplastic elastomers .

IPC 8 full level

**C08L 13/00** (2006.01); **C08K 5/098** (2006.01)

CPC (source: EP KR US)

**C08F 8/44** (2013.01 - EP US); **C08K 3/10** (2013.01 - KR); **C08L 13/00** (2013.01 - EP US); **C08L 15/005** (2013.01 - EP US); **C08L 101/00** (2013.01 - KR); **C08L 101/02** (2013.01 - EP US); **C08K 5/098** (2013.01 - EP US); **C08L 77/00** (2013.01 - EP US)

C-Set (source: EP US)

1. **C08L 13/00** + **C08L 2666/14**
2. **C08L 15/005** + **C08L 2666/14**
3. **C08L 101/02** + **C08L 2666/04**

Cited by

CN105992797A; US8969467B2; WO2007120707A3; WO2012065786A1; WO2014006044A1; WO2015101599A1

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